

MOLDING DIE, HOLLOW CERAMIC MONOLITHIC SUPPORT AND
METHOD OF MANUFACTURING THE SAME, AND
CATALYTIC CONVERTER SYSTEM

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ABSTRACT OF THE DISCLOSURE

10 The present invention provides a hollow ceramic monolithic support that has high isostatic strength, a method of manufacturing the hollow ceramic monolithic support at low cost, and a molding die therefor.

15 According to the present invention, the hollow ceramic monolithic support comprises a main body 82 that has a multitude of cells 45 surrounded by ribs 84 of a honeycomb structure, the hollow space 80 made at the center of the main body 82 so as to penetrate therethrough in the longitudinal direction, the outer 20 periphery skin portion 81 that covers the outer peripheral surface of the main body 82 and the inner periphery skin portion 83 that covers the inner peripheral surface of the main body 82. Ribs 84 located in a layer in a range from one to 10 cells from the inner 25 periphery skin portion 83 are made to form high strength portions S2 that have higher strengths than the other portion P of the ribs located outside thereof.